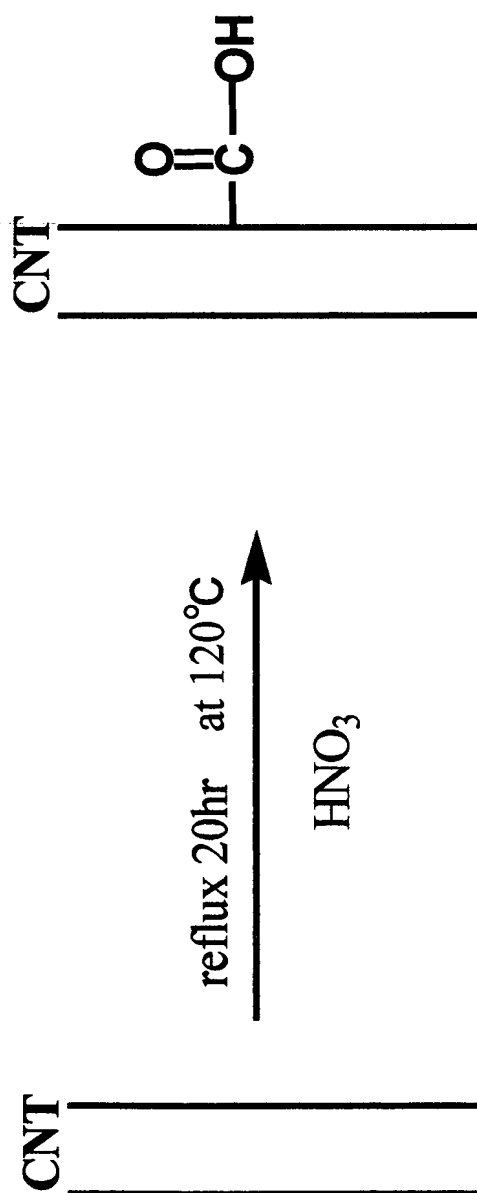
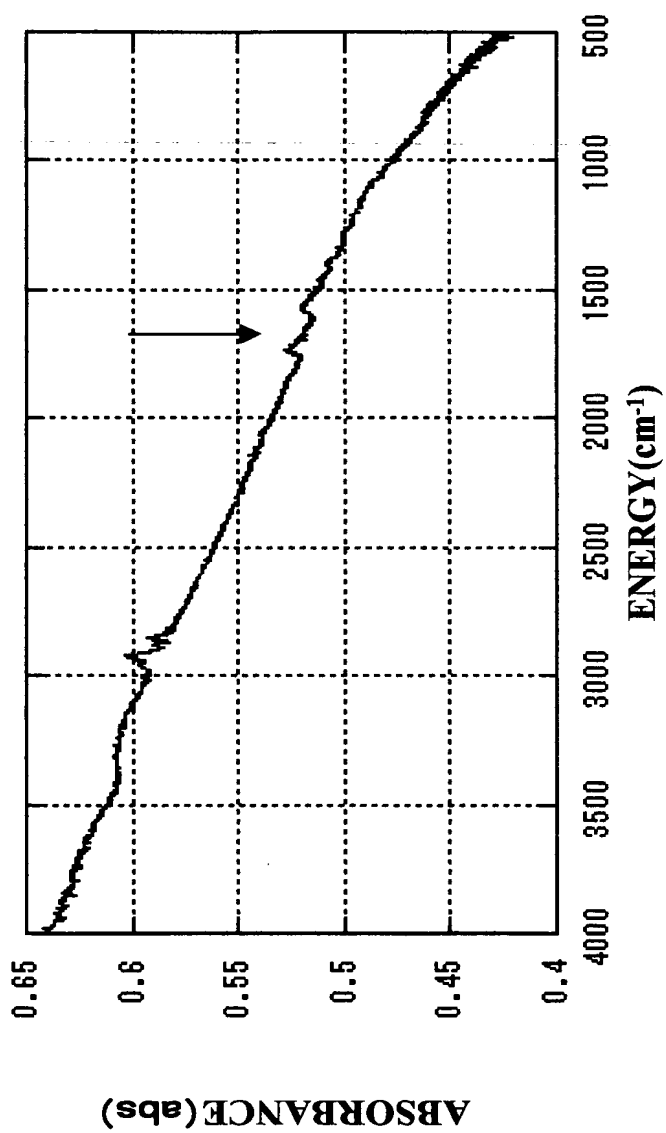


10/537745



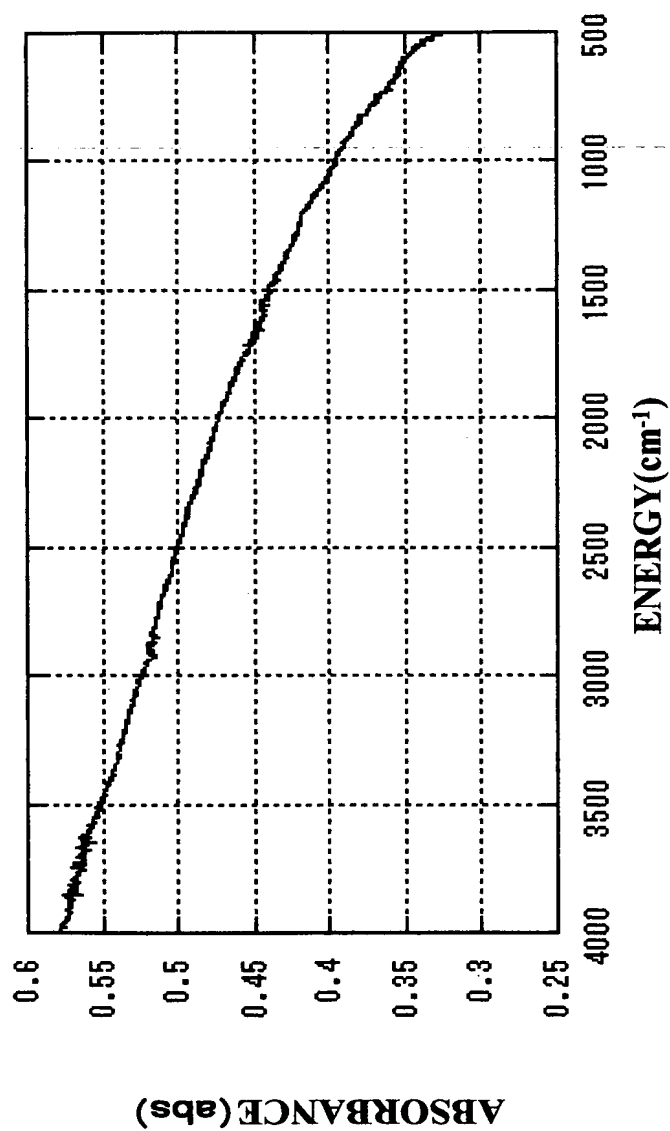
REACTION SCHEME FOR INTRODUCING CARBOXYL GROUP INTO CARBON NANOTUBE

Fig. 1



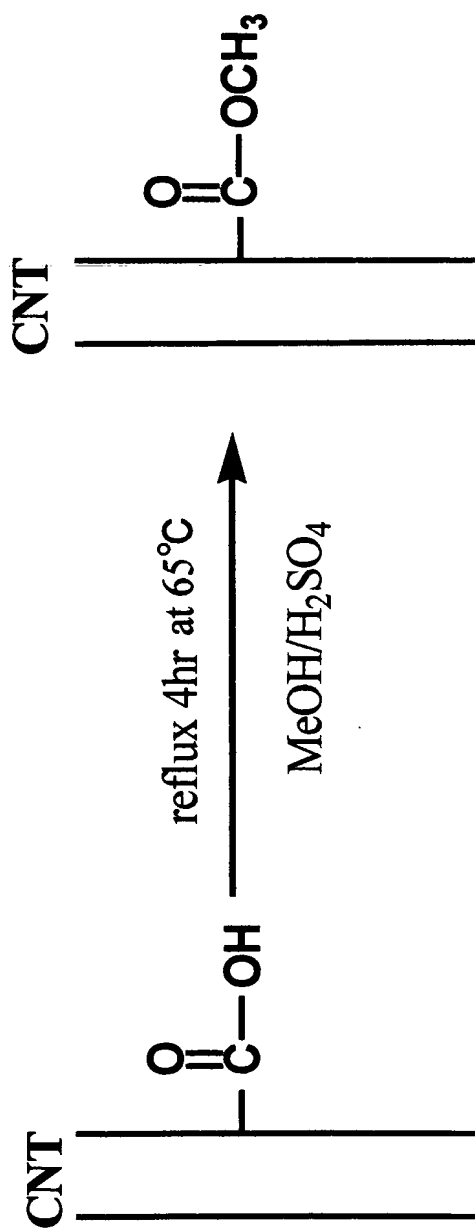
INFRARED ABSORPTION SPECTRUM OF MULTI-WALL CARBON
NANOTUBE CARBOXYLIC ACID

Fig. 2



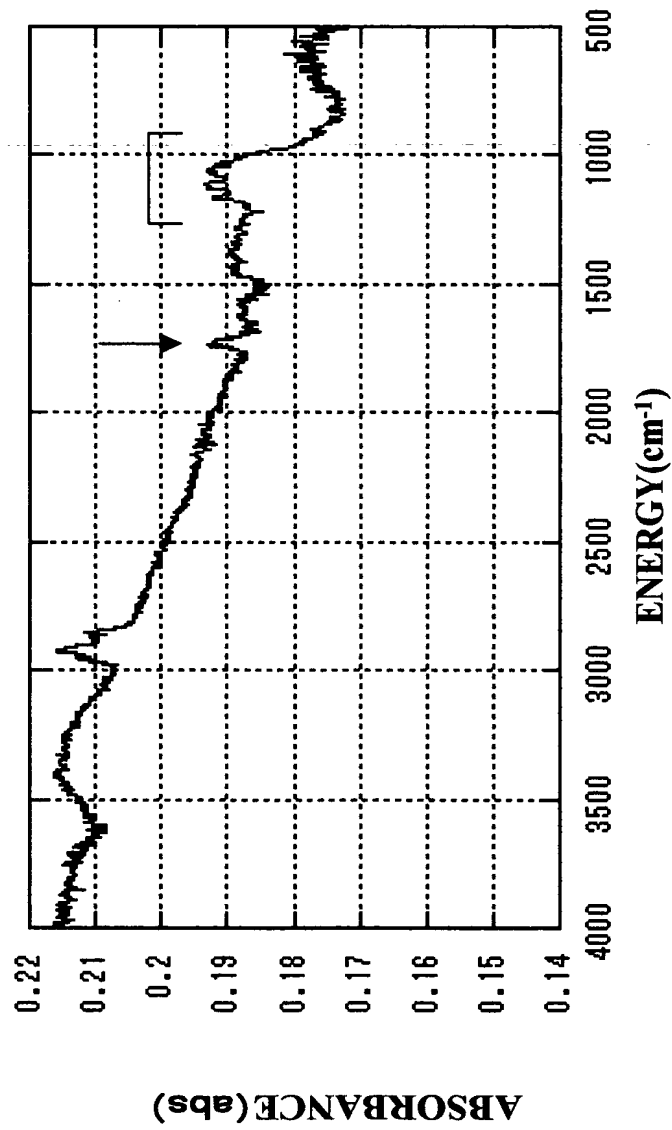
INFRARED ABSORPTION SPECTRUM OF MULTI-WALL CARBON
NANOTUBE RAW MATERIAL

Fig. 3



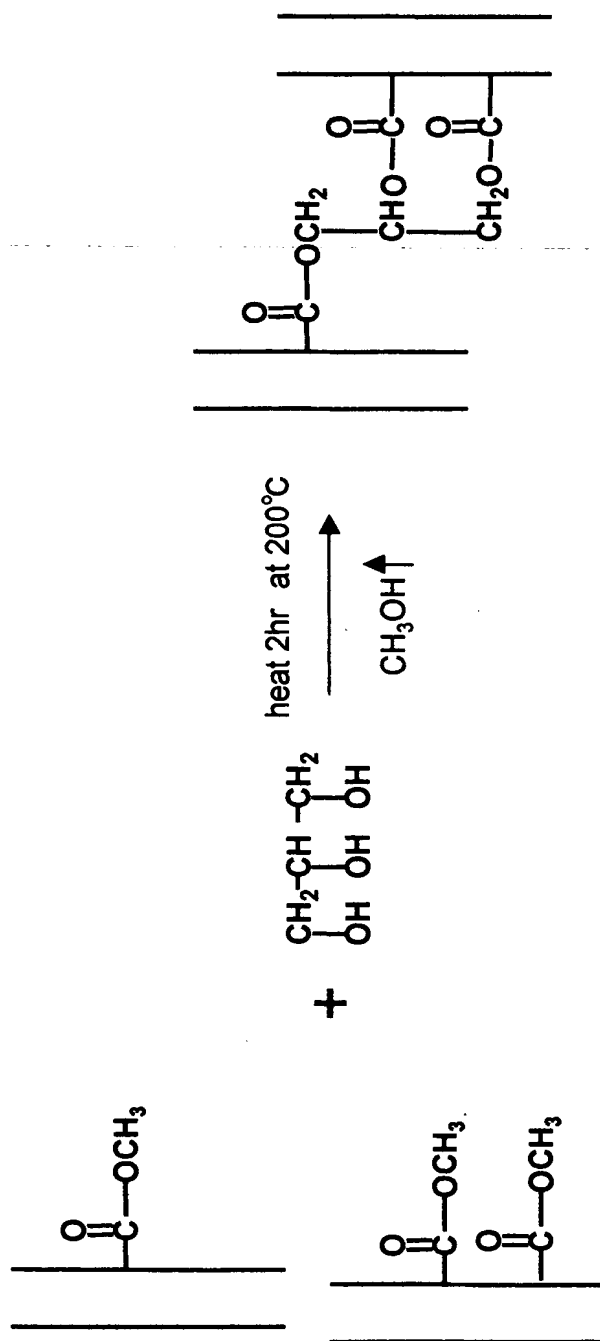
SCHEME FOR METHYL ESTERIFICATION REACTION OF CARBON NANOTUBE CARBOXYLIC ACID

Fig. 4



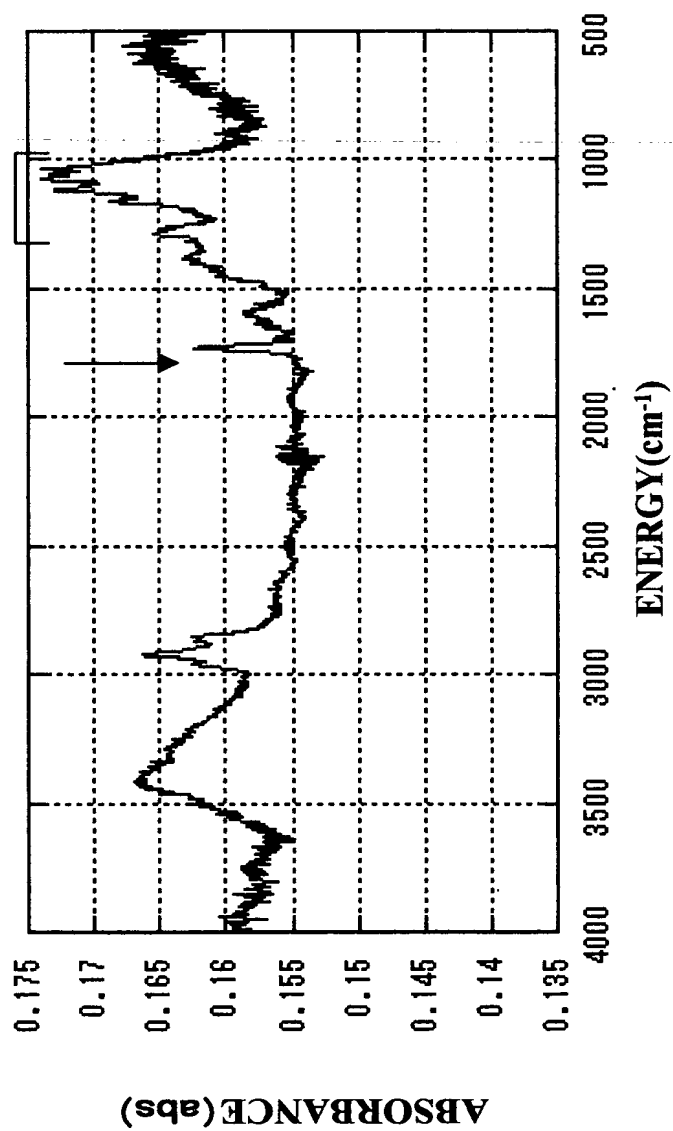
INFRARED ABSORPTION SPECTRUM OF MULTI-WALL CARBON NANOTUBE
CARBOXYLIC ACID METHYL ESTER

Fig. 5



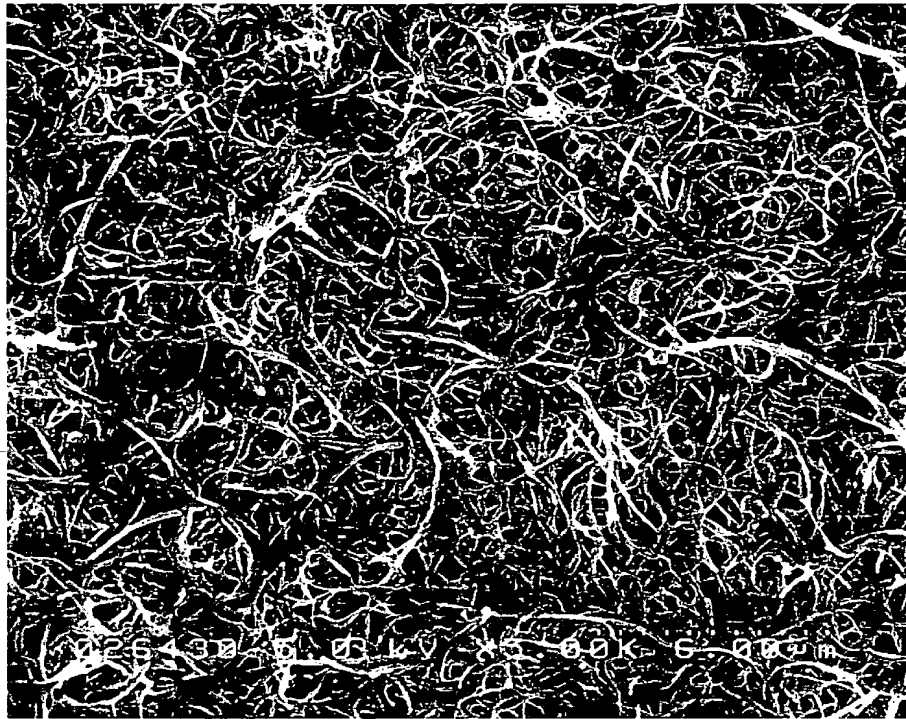
SCHEME FOR POLYMERIZATION REACTION BETWEEN CARBON NANOTUBE
CARBOXYLIC ACID METHYL ESTER AND GLYCERIN BY ESTER EXCHANGE

Fig. 6



INFRARED ABSORPTION SPECTRUM OF ESTER OF MULTI-WALL CARBON NANOTUBE
CARBOXYLIC ACID AND GLYCERIN

Fig. 7



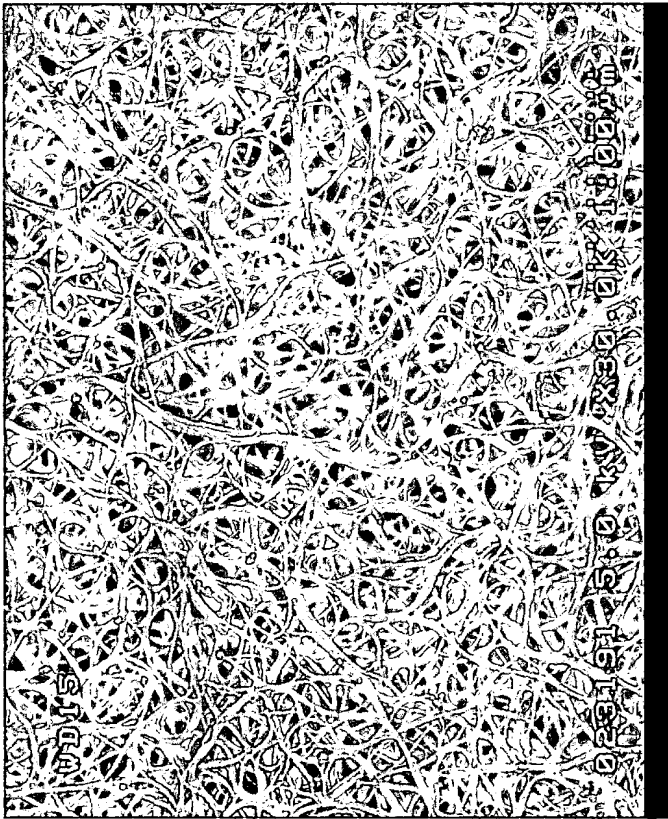
× 5000

Fig. 8(a)



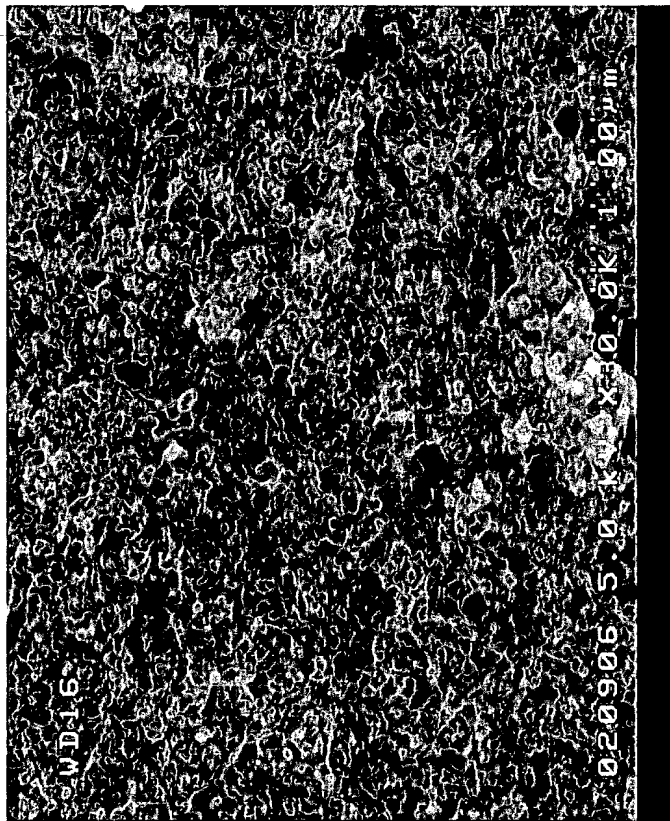
× 20000

Fig. 8(b)



ELECTRON MICROSCOPE PHOTOGRAPH OF PURIFIED
SINGLE-WALL CARBON NANOTUBE
(AT MAGNIFICATION OF 30,000)

Fig. 9



ELECTRON MICROSCOPE PHOTOGRAPH OF SINGLE-
WALL CARBON NANOTUBE AS RAW MATERIAL
(AT MAGNIFICATION OF 30,000)

Fig. 10

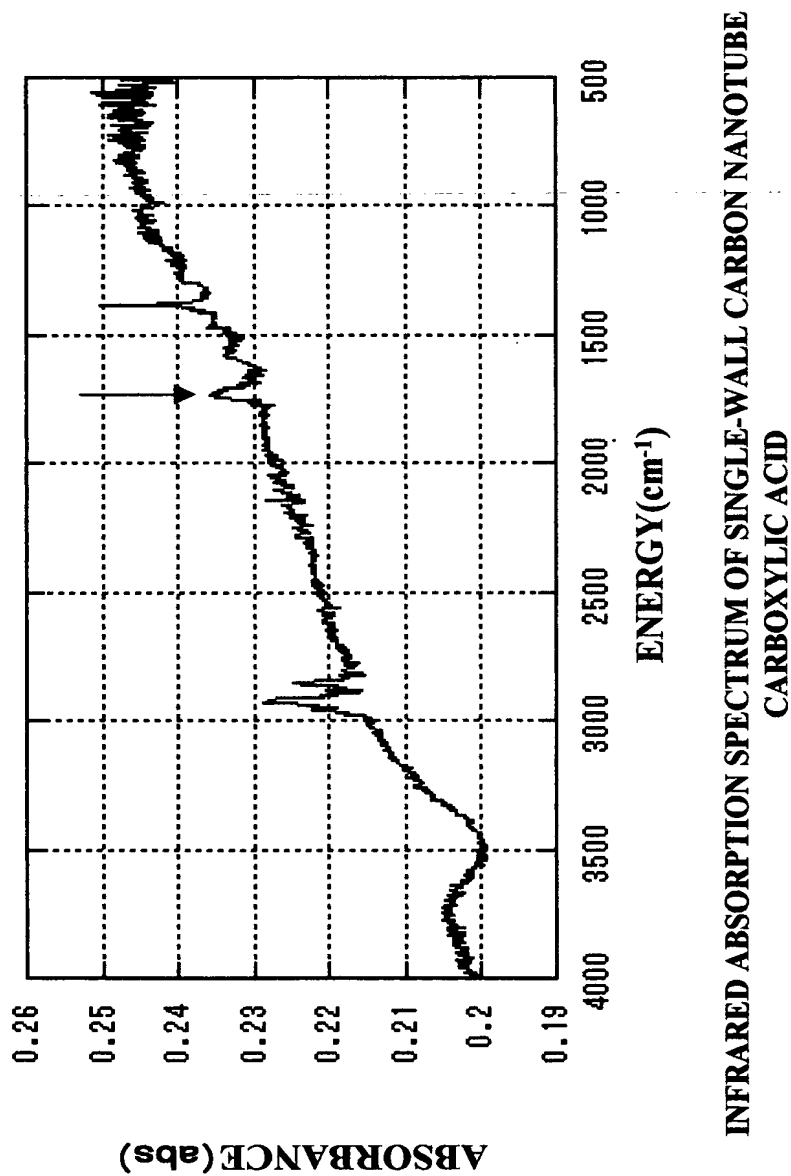
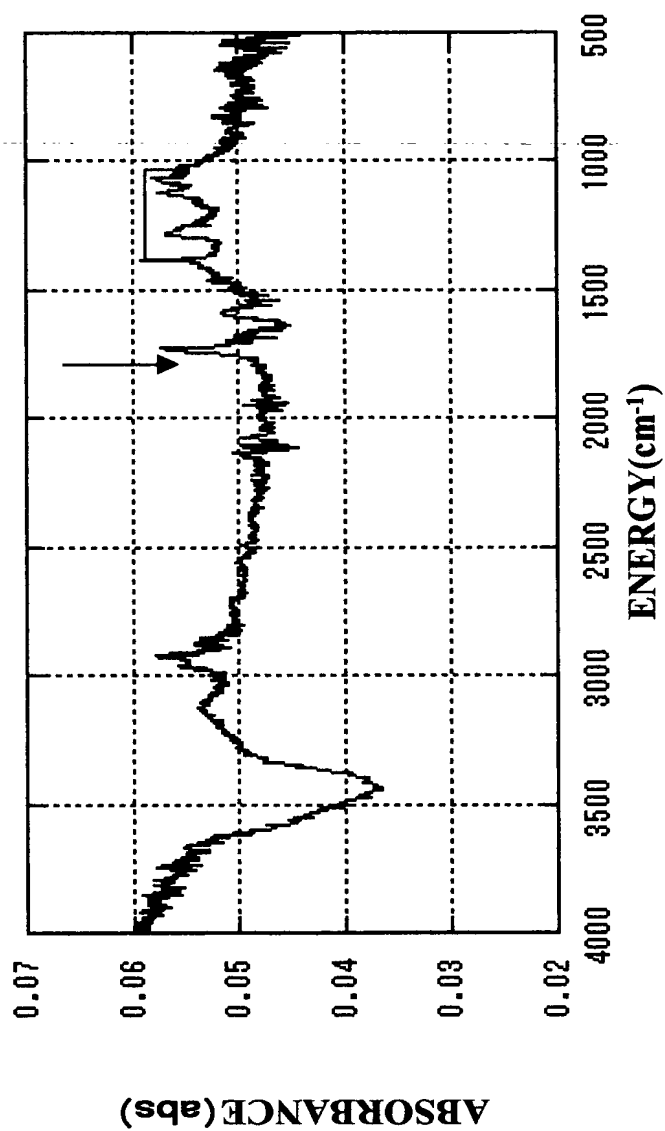
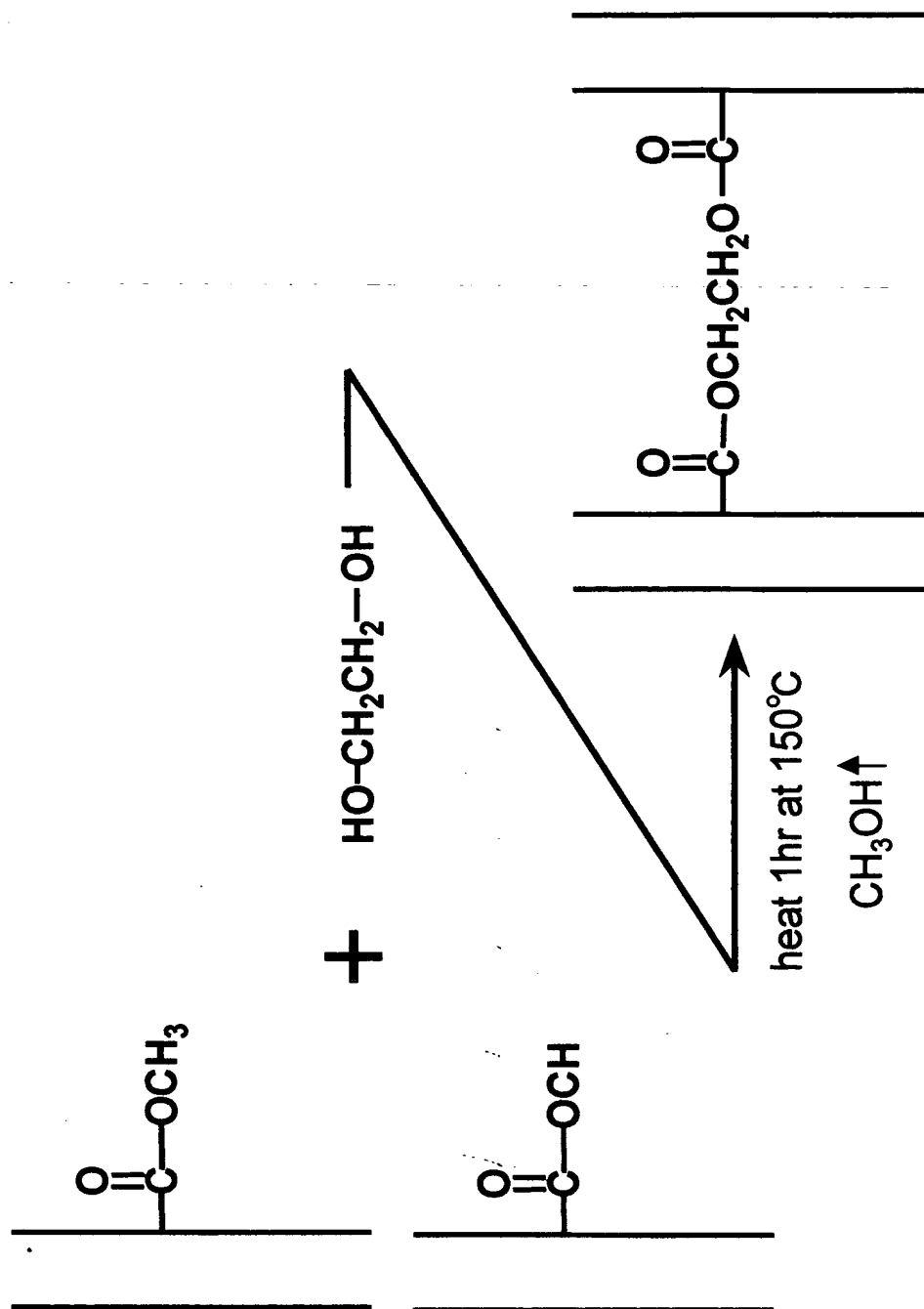


Fig. 11



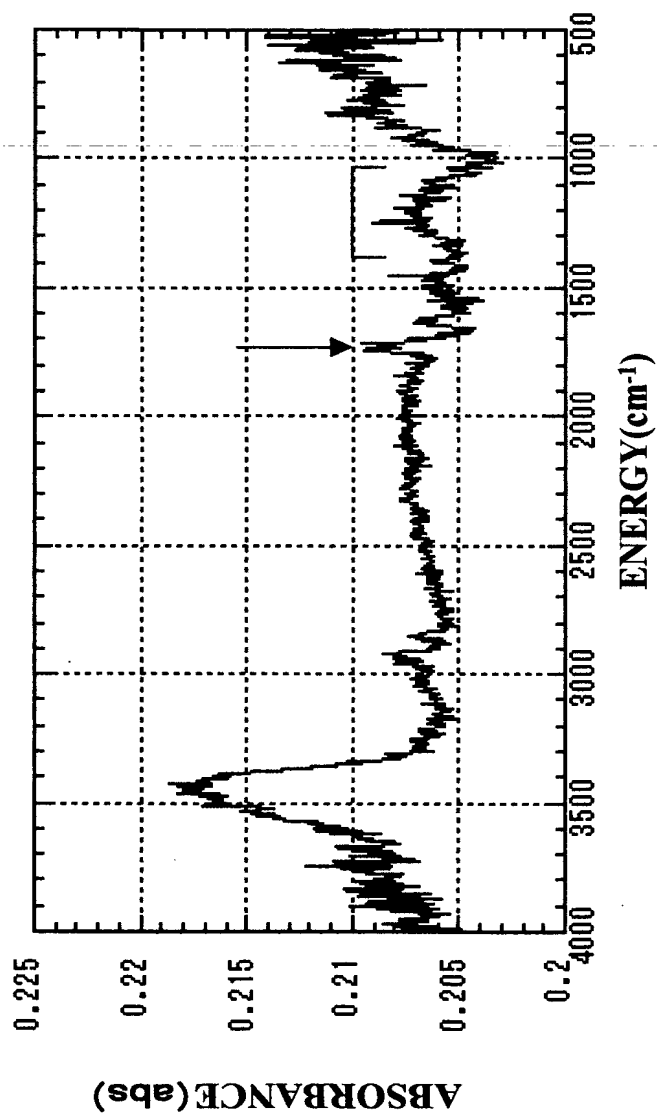
INFRARED ABSORPTION SPECTRUM OF SINGLE-WALL CARBON NANOTUBE
CARBOXYLIC ACID METHYL ESTER

Fig. 12



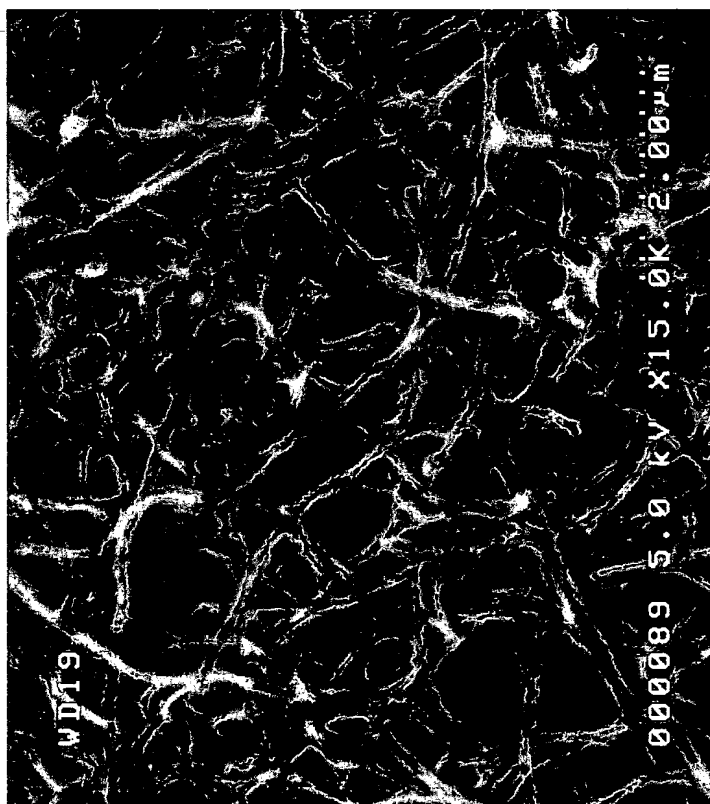
SCHEME FOR POLYMERIZATION REACTION BETWEEN MULTI-WALL CARBON NANOTUBE CARBOXYLIC ACID METHYL ESTER AND ETHYLENE GLYCOL

Fig. 13



INFRARED ABSORPTION SPECTRUM OF ESTER OF MULTI-WALL CARBON
NANOTUBE CARBOXYLIC ACID AND ETHYLENE GLYCOL

Fig. 14



SEM PHOTOGRAPH OF ESTER OF MULTI-WALL CARBON NANOTUBE CARBOXYLIC
ACID AND ETHYLENE GLYCOL: AT MAGNIFICATION OF 15,000

Fig. 15

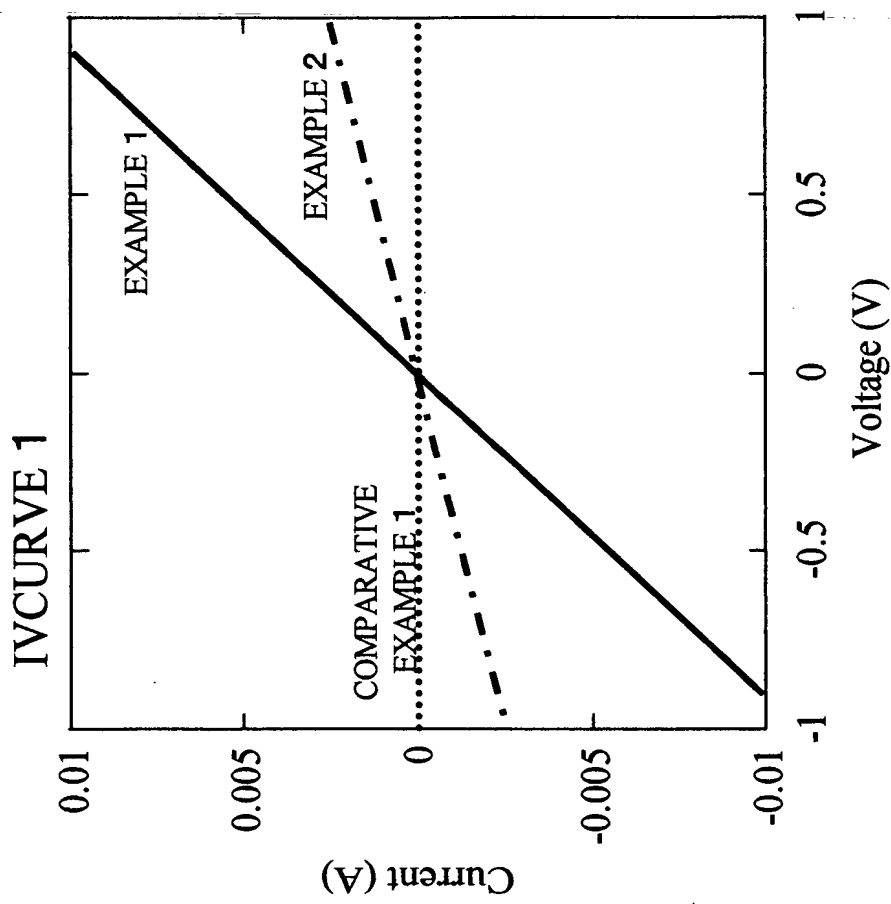


Fig. 16

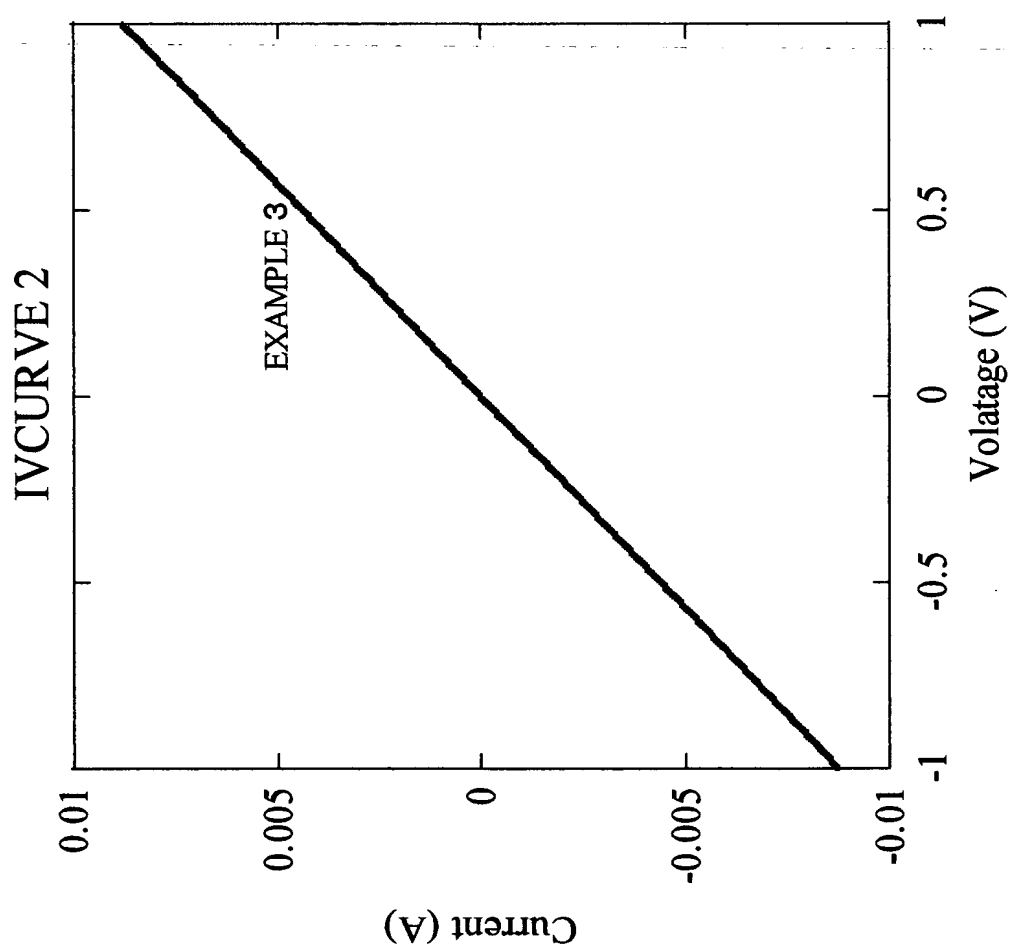


Fig. 17

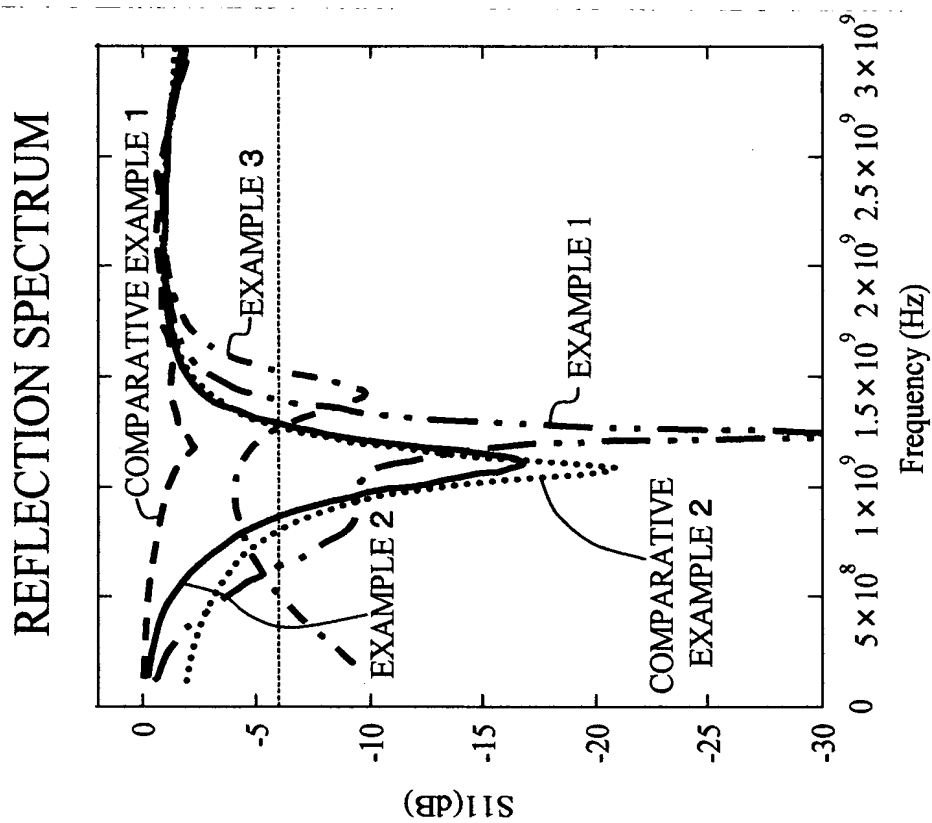


Fig. 18

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